

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.usplo.gov

APPLICATION NO.	FILING	DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/791,190	03/02	2/2004	Frank L. Hall	4718.3US (00-0316.03/US)	1971	
24247	7590	09/28/2004		EXAMINER		
TRASK BRITT P.O. BOX 2550				HEINRICH, SAMUEL M		
SALT LAKE	CITY, UT	84110		ART UNIT	PAPER NUMBER	
				1725		
				DATE MAILED: 09/28/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
	Office Action Server	10/791,190	HALL, FRANK L.			
	Office Action Summary	Examiner	Art Unit			
		Samuel M Heinrich	1725			
Period for	The MAILING DATE of this communication app Reply	pears on the cover sheet with the	correspondence address			
- Extension after SIX - If the per If NO per If Any rep	RTENED STATUTORY PERIOD FOR REPL AILING DATE OF THIS COMMUNICATION. ons of time may be available under the provisions of 37 CFR 1.1 X (6) MONTHS from the mailing date of this communication. eriod for reply specified above is less than thirty (30) days, a repleriod for reply is specified above, the maximum statutory period to reply within the set or extended period for reply will, by statute by received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be till by within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from	mely filed ys will be considered timely. the mailing date of this communication.			
Status						
1)□R	esponsive to communication(s) filed on					
		 action is non-final.				
	ince this application is in condition for allowar		resolution as to the movite in			
cl	osed in accordance with the practice under E	Ex parte Quavle, 1935 C.D. 11 4	53 O G 213			
Disposition		,,	00 0.0. 210.			
	laim(s) <u>1-9</u> is/are pending in the application.					
) Of the above claim(s) is/are withdraw	em francisco de la contraction del contraction de la contraction d				
5)[] C	laim(s) is/are allowed.	will from consideration.				
	laim(s) <u>1-9</u> is/are rejected.					
	laim(s) is/are rejected.					
	laim(s) are subject to restriction and/or	r cleation requirement				
		r election requirement.				
Application	Papers					
9)∐ Th	e specification is objected to by the Examine	r.				
10)⊠ Th	e drawing(s) filed on <u>02 March 2004</u> is/are: a	a)⊠ accepted or b)⊡ objected to	by the Examiner.			
Ap	oplicant may not request that any objection to the o	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).			
Re	eplacement drawing sheet(s) including the correcti	ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d)			
11)□ Th	e oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
	ler 35 U.S.C. § 119					
12) <u> </u>	knowledgment is made of a claim for foreign All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).			
1.[s have been received				
2.[1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 					
3.[ity documents have been receive	on No			
	application from the International Bureau	(PCT Rule 17 2(a))	d in this National Stage			
* See	the attached detailed Office action for a list of	of the certified copies not received	Ч			
	2.000		u.			
Attooh===4/=>						
Attachment(s)	References Cited (PTO-892)					
2) 🔲 Notice of	Draftsperson's Patent Drawing Review (PTO-948)	4)	(PTO-413)			
3) 🔀 Informatio	on Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) Notice of Informal Pa	atent Application (PTO-152)			
Paper No B. Patent and Traderr	(s)/Mail Date <u>3/04 & 6/04</u> .	6) Other:	•			
TOL-326 (Rev. 1	4.04)	ion Summary Par	t of Paper No /Mail Date 00252004			

Application/Control Number: 10/791,190

Art Unit: 1725

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over USPN 4,752,668 to Rosenfield et al in view of USPN 5,442,416 to Tateyama et al. Rosenfield et al describe (Front Page Figure and Abstract) the use of an excimer laser for removing resist contamination on a wafer. Rosenfield et al do not describe a preheat step. Tateyama et al describe (Brief Summary BSTX (7)) a wafer preheating step prior to resist coating. Application of the disclosure of an initial step of preheat and resist coating to as described by Tateyama et al to the disclosure of laser contaminant removal as described by Rosenfield et al would have been obvious at the time applicant's invention was made to a person having ordinary skill in the art because the preheat removes moisture and provides a better resist coating. Encapsulation is well known and would have been obvious at the time applicant's invention was made to a person having ordinary skill in the art because encapsulation protects the work piece.

Claims 3, 6, and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over USPN 4,752,668 to Rosenfield et al in view of USPN 5,442,416 to Tateyama et al as applied to claims 1, 4, and 7 above, and further in view of USPN 6,245,677 to Haq. Haq describes (Brief Summary Text BSTX (4)) the well known step of encapsulation of

Art Unit: 1725

wafers which have been processed with resist. Encapsulation is well known and would have been obvious at the time applicant's invention was made to a person having ordinary skill in the art because encapsulation protects the work piece.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The cited art pertains to resist development on substrates.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Samuel M Heinrich whose telephone number is 703 308 1168. The examiner can normally be reached on M-TH.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas G Dunn can be reached on 703 308 3318. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Samuel M Heinrich Primary Examiner Art Unit 1725

SMH